

NATIONAL BUREAU OF STANDARDS REPORT

10 651

NATIONAL ESTIMATES OF LEAD BASED PAINT POISONING OF CHILDREN (ESTIMATED BY STANDARD METROPOLITAN STATISTICAL AREA)

**Not for publication
or for reference**



U.S. DEPARTMENT OF COMMERCE
NATIONAL BUREAU OF STANDARDS

NATIONAL BUREAU OF STANDARDS

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² Part of the Center for Radiation Research.

³ Located at Boulder, Colorado 80302.

NATIONAL BUREAU OF STANDARDS REPORT

NBS PROJECT

4314518

NBS REPORT

10 651

December 7, 1971

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Milestone 6

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**Not for publication
or for reference**

Sponsored by

Department of Housing and Urban Development

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Approved for public release by the
director of the National Institute of
Standards and Technology (NIST)
on October 9, 2015

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PREFACE

This report can be grouped, conceptually, with 4 other NBS Reports under the blanket title "Pediatric Lead Paint Poisoning in the United States--A Survey with Preliminary Estimates." Under this arrangement, the "parts" of the study would be listed:

- Part I NBS Report # 10499 "The Nature of the Lead Paint Poisoning Hazard"
- Part II NBS Report # 10657 "Data Collection and Assimilation for the Lead Paint Poisoning Model"
- Part III NBS Report # 10653 "Effect of Data Aggregation in Modelling"
- Part IV NBS Report # 10654 "A Model to Estimate the Incidence of Lead Paint Poisoning"
- Part V NBS Report # 10651 "National Estimates of Lead Based Paint Poisoning of Children (Estimated by Standard Metropolitan Statistical Area)"

These papers were intended as interim progress reports covering work done up to the time of publication. Reports describing validation and refinement of the models and outputs as well as analysis of the outputs will be issued subsequently. A summary report encompassing revision of the current ones and those projected above, under one cover, is anticipated.

ABSTRACT

This report contains outputs from (unvalidated) Models to predict the incidence of pediatric lead poisoning in the United States. Estimates of the children at risk, the children with elevated blood lead levels ($40\text{ }\mu\text{g}$ lead/100 ml whole blood), and the immediately hazardous housing are given for each SMSA (Standard Metropolitan Statistical Area) in the United States. In addition to estimates based on the $40\text{ }\mu\text{g}$ /100 ml cut off level, estimates are calculated based on cutoffs at 50, 60, or 70. Finally, the report includes blood lead level distributions for several cities for which data are available.

NATIONAL ESTIMATES OF LEAD BASED PAINT POISONING OF CHILDREN
(ESTIMATED BY STANDARD METROPOLITAN STATISTICAL AREA)

This report is devoted to the presentation of estimated by models described in NBS Report #10654, "A Model to Estimate the Incidence of Lead Paint Poisoning," of the number of children with "lead poisoning" in 241 metropolitan areas throughout the country. More precisely, it contains an estimate from each of several models of the number of children up to 6 years old in each SMSA,* who have blood lead levels exceeding 40 micrograms per 100 milliliters of whole body blood. "National" totals were calculated by summing over the SMSA's and not derived independently.

The reader is cautioned against drawing conclusions from these outputs without reading the report cited above, (and two companion reports concerning the inputs, #10653: Effect of Data Aggregation in Modelling, #10657: Data Collection and Assimilation for the Lead Paint Poisoning Model), because it is impossible to determine confidence levels for the various estimates in the absence of some information concerning the methods of analysis underlying the models and the quality of the data inputs. Such information is too voluminous to reproduce here. In brief, while we believe the estimate to be reliable within a factor of 2, we cannot be more precise until data become available to validate the models.

Nothing underscores the preliminary nature of the "lead poisoning" model and model estimates quite so much as the fact that about 1/3 of the nation's young children live outside of SMSA's. The counts of 68.6%

*A Standard Metropolitan Statistical Area is, essentially, a city with a population of at least 50,000, aggregated with its surrounding suburbs. The Bureau of the Census uses the terms "central city" and "ring" for these components.

TABLE 1

SMSA NAME	CHILDREN 6 AND UNDER	8 UNSOUND HOUSING	CHILDREN AT RISK	MODEL 1 EBL	MODEL 1A EBL	HAZARDOUS HOUSING
ABILENE, TEXAS	13170.	21.1	2782.	668.	744.	8390.
AKRON, OHIO	83722.	13.8	11548.	2772.	2834.	22050.
ALBANY, GEORGIA	13512.	32.5	4391.	1054.	1415.	6819.
ALBANY-SCHENECTADY-TROY, NEW YORK	86646.	16.2	14057.	3374.	3563.	36103.
ALBUQUERQUE, N. MEXICO	42271.	12.4	5221.	1253.	1278.	9486.
ALLENTOWN-BETHLEHEM-EASTON, PA.-N.J.	59922.	12.1	7243.	1738.	1664.	19094.
ALTOONA, PENNSYLVANIA	15446.	27.4	4231.	1015.	1203.	11932.
AMARILLO, TEXAS	17758.	15.5	2761.	663.	697.	7291.
ANAHEIM-SANTA ANA-GARDEN GROVE, CALIF.	184609.	6.8	12553.	3013.	2626.	15437.
ANDERSON, INDIANA	18112.	23.0	4166.	1000.	1181.	9356.
ANN ARBOR, MICHIGAN	27735.	13.0	3615.	868.	865.	6700.
APPLETON-OSHKOSH, WISC.	37201.	15.6	5803.	1393.	1507.	4473.
ASHEVILLE, NORTH CAROLINA	16766.	27.2	4557.	1094.	1298.	11521.
ATLANTA, GEORGIA	185298.	18.2	33718.	8092.	9072.	56149.
ATLANTIC CITY, NEW JERSEY	19462.	12.9	2516.	604.	589.	8351.
AUGUSTA, GEORGIA	31834.	26.9	8568.	2056.	2496.	17110.
AUSTIN, TEXAS	35431.	19.0	6742.	1618.	1777.	12452.
BAKERSFIELD, CALIFORNIA	42337.	21.4	9065.	2176.	2513.	20905.
BALTIMORE, MARYLAND	255628.	12.7	32562.	7815.	7839.	66179.
BATON ROUGE, LA.	38400.	20.2	7771.	1865.	2153.	13369.
BAY CITY, MICHIGAN	16338.	18.6	3041.	730.	834.	6012.
BEAUMONT-PORT ARTHUR-ORANGE, TEXAS	38323.	22.2	8506.	2041.	2338.	21692.
BILLINGS, MONTANA	10386.	24.0	2493.	598.	694.	6200.
BLOXI-GULFPORT, MISSISSIPPI	17616.	32.0	5637.	1353.	1735.	6564.
BIRMINGHAM, ALABAMA	38473.	14.6	5600.	1344.	1406.	9712.
BLOOMINGTON-NORMAL, ILLINOIS	86353.	26.3	22720.	5453.	6441.	51251.
BOISE CITY, IDAHO	11489.	25.0	2872.	689.	790.	6953.
BOSTON, MASSACHUSETTS	13834.	19.1	2642.	634.	703.	5879.
BOSTON, MASSACHUSETTS	316924.	12.3	39098.	9384.	9146.	100433.
BRIDGEPORT, CONN.	46076.	10.4	4784.	1148.	1081.	11004.
BRISTOL, CONN.	8651.	12.3	1064.	255.	259.	1746.
BROCKTON, MASSACHUSETTS	27501.	11.9	3274.	786.	813.	5474.
BROWNSVILLE-HARLINGEN-SAN BENITO, TEXAS	21807.	35.2	7685.	1844.	2550.	14831.
BRYAN-COLLEGE STATION, TEXAS	7604.	32.1	2441.	586.	752.	3020.
BUFFALO, NEW YORK	163029.	13.4	21859.	5246.	5296.	54942.
CANTON, OHIO	45669.	17.5	7980.	1915.	2074.	18213.
CEDAR RAPIDS, IOWA	22808.	15.7	3587.	861.	944.	6892.
CHAMPAIGN-URBANA, ILLINOIS	18384.	14.0	2574.	618.	617.	5370.
CHARLESTON, SOUTH CAROLINA	43077.	27.8	11979.	2875.	3647.	17227.
CHARLESTON, WEST VIRGINIA	25044.	24.6	6153.	1477.	1681.	19071.
CHARLOTTE, NORTH CAROLINA	53899.	19.4	10456.	2509.	2848.	15997.
CHATTANOOGA, TENN.	36526.	25.5	9312.	2235.	2639.	22417.
CHICAGO, ILLINOIS	872488.	11.5	100310.	24074.	23631.	229640.
CINCINNATI, OHIO-KY.-IND.	179656.	14.9	26732.	6416.	6788.	51169.
CLEVELAND, OHIO	250654.	10.6	26540.	6369.	6073.	59553.
COLORADO SPRINGS, COLORADO	30281.	13.0	3951.	948.	968.	6286.
COLUMBIA, MISSOURI	9096.	23.2	2110.	506.	573.	2473.
COLUMBIA, SOUTH CAROLINA	38743.	22.7	8799.	2112.	2425.	15598.
COLUMBUS, GEORGIA	31301.	26.8	8377.	2010.	2469.	15807.
COLUMBUS, OHIO	116049.	16.9	19633.	4712.	5110.	36213.

SMSA NAME	CHILDREN 6 AND UNDER	8 UNSOUND HOUSING	CHILDREN AT RISK	MODEL 1 EBL	MODEL 1A EBL	HAZARDOUS HOUSING
CORPUS CHRISTI, TEXAS	40368.	23.1	9309.	2234.	2705.	15790.
DALLAS, TEXAS	211789.	16.8	35624.	8550.	9459.	60951.
DAVENPORT-ROCK ISLAND-MOLINE, IOWA	47629.	16.6	7883.	1892.	2063.	14094.
DAYTON, OHIO	108074.	12.3	13327.	3198.	3210.	26240.
DECATUR, ILLINOIS	15689.	16.6	2609.	626.	674.	6566.
DENVER, COLORADO	154700.	10.9	16927.	4063.	3949.	33623.
DES MOINES, IOWA	35607.	19.4	6913.	1659.	1852.	17296.
DETROIT, MICHIGAN	546190.	10.8	59147.	14195.	13890.	124884.
DUBUQUE, IOWA	13559.	24.6	3336.	801.	1001.	5414.
DULUTH-SUPERIOR, MINN.-WIS.	29551.	19.1	5656.	1357.	1461.	18840.
DURHAM- NORTH CAROLINA	21903.	21.9	4797.	1151.	1294.	7226.
EL PASO, TEXAS	52765.	19.2	10145.	2435.	2848.	16523.
ERIE, PENNSYLVANIA	33774.	15.4	5189.	1245.	1323.	12127.
EUGENE, OREGON	24747.	17.5	4340.	1042.	1110.	9127.
EVANSVILLE, IND.-KY.	26835.	19.4	5217.	1252.	1367.	12889.
FALL RIVER, MASS.-R.I.	17996.	14.0	2513.	603.	614.	6614.
FARGO-MOREHEAD, N. DAK.-MINN.	13984.	16.3	2274.	546.	572.	5189.
FAYETTEVILLE, NORTH CAROLINA	29292.	33.4	9784.	2348.	3093.	12201.
FITCHBURG-LEOMINSTER, MASS.	12007.	25.3	3038.	729.	867.	7329.
FLINT, MICHIGAN	73001.	14.9	10855.	2605.	2860.	16784.
FORT LAUDERDALE-HOLLYWOOD, FLORIDA	60748.	7.5	4546.	1091.	896.	9621.
FORT SMITH, ARK.-OKLA.	19765.	40.8	8064.	1935.	2590.	19481.
FORT WAYNE, INDIANA	37993.	14.4	5470.	1313.	1396.	10471.
FORT WORTH, TEXAS	99588.	16.8	16732.	4016.	4388.	32739.
FRESNO, CALIFORNIA	51778.	21.8	11272.	2705.	3114.	25859.
GADSDEN, ALABAMA	11203.	38.3	4291.	1030.	1343.	11514.
GAINESVILLE, FLORIDA	12416.	30.9	3837.	921.	1137.	2594.
GALVESTON-TEXAS CITY, TEXAS	21319.	23.0	4898.	1175.	1372.	11717.
GARY-HAMMOND-EAST CHICAGO, INDIANA	84681.	15.4	13042.	3130.	3370.	26034.
GRAND RAPIDS, MICHIGAN	72650.	13.5	9822.	2357.	2463.	15297.
GREAT FALLS, MONTANA	10722.	28.8	3088.	741.	926.	6937.
GREEN BAY, WISCONSIN	23340.	13.5	3143.	754.	809.	4784.
GREENSBORO-WINSTON-SALEM-HIGH POINT, N.	73497.	19.8	14531.	3487.	3885.	25695.
GREENVILLE, SOUTH CAROLINA	37021.	24.9	9236.	2217.	2628.	16003.
HAMILTON-MIDDLETOWN, OHIO	28127.	14.1	3969.	953.	982.	8261.
HARRISBURG, PENNSYLVANIA	46094.	12.4	5700.	1368.	1324.	13771.
HARTFORD, CONNECTICUT	81943.	8.8	7196.	1727.	1580.	14406.
HONOLULU, HAWAII	84918.	21.3	18081.	4339.	5077.	26784.
HOUSTON, TEXAS	273286.	14.7	40299.	9672.	10392.	60184.
HUNTINGTON-ASHLAND, W. VA.-KY.-OHIO	29205.	26.5	7740.	1858.	2189.	21219.
HUNTSVILLE, ALABAMA	32785.	22.1	7247.	1739.	2092.	7406.
INDIANAPOLIS, INDIANA	145885.	15.0	21943.	5266.	5609.	33623.
JACKSON, MICHIGAN	18320.	17.4	3184.	764.	837.	7153.
JACKSON, MISSISSIPPI	34632.	23.1	7987.	1917.	2282.	12365.
JACKSONVILLE, FLORIDA	66225.	20.7	13701.	3288.	3736.	29224.
JERSEY CITY, NEW JERSEY	66577.	15.5	10348.	2484.	2524.	31832.
JOHNSTOWN, PENNSYLVANIA	28976.	25.1	7284.	1748.	2007.	21470.
KALAMAZOO, MICHIGAN	24488.	14.5	3550.	852.	878.	7602.
KANSAS CITY, MO.-KANSAS	155548.	15.5	24083.	5780.	6094.	54966.

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KENOSHA, WISCONSIN	15705.	13.5	2123.	510.	531.	4548.
KNOXVILLE, TENNESSEE	45155.	23.9	10776.	2586.	2951.	26891.
LA CROSSE, WISC.	9422.	24.1	2271.	545.	630.	3739.
LAFAYETTE, LA.	16090.	29.9	4811.	1155.	1506.	7069.
LAFAYETTE-WEST LAFAYETTE, IND.	13086.	22.9	2997.	719.	827.	3192.
LAKE CHARLES, LA.	20132.	20.5	4127.	990.	1157.	8910.
LANCASTER, PENNSYLVANIA	39692.	11.8	4679.	1123.	1107.	9915.
LANSING, MICHIGAN	50711.	15.4	7821.	1877.	2023.	14048.
LAREDO, TEXAS	12018.	56.4	6778.	1627.	2572.	9701.
LAS VEGAS, NEVADA	37812.	8.3	3143.	754.	704.	3599.
LAWRENCE-HAVERHILL, MASS.-N.H.	29275.	16.9	4958.	1190.	1289.	10677.
LAWTON, OKLAHOMA	13585.	21.7	2948.	708.	814.	5359.
LEWISTON-AUBURN, MAINE	9143.	25.0	2286.	549.	655.	5869.
LEXINGTON, KENTUCKY	21648.	19.6	4249.	1020.	1141.	7902.
LIMA, OHIO	22761.	19.6	4451.	1068.	1218.	6310.
LINCOLN, NEBRASKA	18891.	20.0	3776.	906.	989.	10098.
LITTLE ROCK-NORTH LITTLE ROCK, ARK.	40663.	21.7	8812.	2115.	2434.	16568.
LORAIN-ELYRIA, OHIO	36428.	12.7	4621.	1109.	1158.	7910.
LOS ANGELES-LONG BEACH, CALIF.	839060.	7.3	60901.	14616.	12625.	172039.
LOUISVILLE, KY.-IND.	103292.	16.4	16890.	4054.	4342.	36637.
LOWELL, MASS.	31615.	14.4	4550.	1092.	1193.	7031.
LUBBOCK, TEXAS	23977.	18.8	4512.	1083.	1225.	9279.
LYNCHBURG, VIRGINIA	14457.	25.8	3737.	897.	1056.	8237.
MACON, GEORGIA	27130.	29.7	8047.	1931.	2434.	15961.
MADISON, WISCONSIN	36274.	10.5	3807.	914.	877.	7084.
MANCHESTER, NEW HAMPSHIRE	13085.	19.9	2604.	625.	695.	6637.
MANSFIELD, OHIO	16624.	23.1	3840.	922.	1083.	3815.
MCALLEN-PHARR-EDENBURG, TEXAS	28918.	34.3	9919.	2381.	3293.	3187.
MEMPHIS, TENN.-ARK.	101031.	18.6	18834.	4520.	5074.	34463.
MERIDEN, CONNECTICUT	6868.	14.9	1023.	246.	256.	2511.
MIAMI, FLORIDA	127325.	8.4	10705.	2569.	2187.	29339.
MIDLAND, TEXAS	8141.	18.5	1506.	361.	399.	4134.
MILWAUKEE, WISCONSIN	177587.	9.9	17599.	4224.	4010.	37167.
MINNEAPOLIS-ST. PAUL, MINN.	244356.	11.4	27886.	6693.	6705.	52850.
MOBILE, ALABAMA	50299.	27.8	13962.	3351.	4174.	25454.
MODESTO, CALIF.	24199.	12.8	3097.	743.	748.	1657.
MONROE, LA.	15924.	31.8	5067.	1216.	1582.	9886.
MONTGOMERY, ALABAMA	26002.	27.9	7248.	1739.	2147.	13702.
MUNCIE, INDIANA	16395.	17.4	2850.	684.	747.	6136.
MUSKEGON-MUSKEGON HEIGHTS, MICH.	20879.	16.8	3500.	840.	921.	7785.
NASHUA, N.H.	10211.	17.9	1828.	439.	511.	2190.
NASHVILLE, TENNESSEE	63669.	20.4	12964.	3111.	3457.	24607.
NEW BEDFORD, MASS.	16794.	12.0	2018.	484.	463.	6197.
NEW BRITAIN, CONNECTICUT	16896.	10.0	1689.	405.	376.	4029.
NEW HAVEN, CONNECTICUT	40814.	13.2	5387.	1293.	1281.	13379.
NEW LONDON-GROTON-NORWICH, CONN.	27844.	16.2	4500.	1080.	1177.	8148.
NEW ORLEANS, LA.	140338.	21.5	30149.	7236.	8470.	58357.
NEW YORK, NEW YORK	1316742.	12.8	169107.	40586.	39819.	467876.
NEWARK, NEW JERSEY	221966.	12.8	28511.	6843.	6813.	68892.
NEWPORT NEWS-HAMPTON, VA.	38746.	17.8	6901.	1656.	1844.	11483.

SMSA NAME	CHILDREN 6 AND UNDER	8 UNSOUND HOUSING	CHILDREN AT RISK	MODEL 1 EBL	MODEL 1A EBL	HAZARDOUS HOUSING
NORFOLK-PORTSMOUTH, VA.	86336.	17.6	15190.	3646.	3994.	29361.
NORWALK, CONNECTICUT	14300.	10.8	1544.	371.	353.	3323.
ODESSA, TEXAS	12194.	21.1	2573.	618.	717.	6210.
OGDEN, UTAH	17608.	14.3	2522.	605.	648.	4631.
OKLAHOMA CITY, OKLAHOMA	78298.	17.7	13851.	3324.	3606.	30593.
OMAHA, NEBR.-IOWA	73418.	15.6	11420.	2741.	2973.	22347.
ORLANDO, FLORIDA	51620.	15.6	8042.	1930.	2021.	16613.
OWENSBORO, KENTUCKY	10626.	21.4	2274.	546.	638.	2910.
OXNARD-VENTURA, CALIFORNIA	53501.	15.6	8346.	2003.	2203.	9469.
PATERSON-CLIFTON-PASSAIC, N.J.	150497.	7.5	11350.	2724.	2323.	27985.
PENSACOLA, FLORIDA	31305.	24.0	7501.	1800.	2139.	14599.
PEORIA, ILLINOIS	42686.	15.8	6762.	1623.	1724.	14684.
PETERSBURG-COLONIAL HEIGHTS, VA.	15944.	40.7	6489.	1557.	2085.	4790.
PHILADELPHIA, PA.-N.J.	578867.	10.4	60106.	14425.	13645.	138511.
PHOENIX, ARIZONA	122301.	15.1	18523.	4445.	4688.	32087.
PINE BLUFF, ARKANSAS	11669.	51.5	6010.	1442.	2109.	12838.
PITTSBURGH, PENNSYLVANIA	259899.	16.9	43920.	10541.	10907.	125193.
PITTSFIELD, MASSACHUSETTS	9703.	17.2	1669.	401.	431.	4212.
PORTLAND, MAINE	16732.	12.8	2143.	514.	510.	5298.
PORTLAND, ORE.-WASH.	116027.	14.9	17266.	4144.	4230.	43272.
PROVIDENCE-PAWTUCKET-WARWICK- R.I.-MAS	108421.	12.3	13360.	3206.	3156.	33224.
PROVO-OREM, UTAH	20171.	13.1	2640.	634.	673.	3738.
PUEBLO, COLORADO	14206.	24.9	3537.	849.	997.	8634.
RACINE, WISCONSIN	23489.	12.4	2924.	702.	723.	5464.
RALEIGH, N.C.	27887.	23.8	6641.	1594.	1861.	11649.
READING, PENNSYLVANIA	31977.	12.8	4091.	982.	947.	11756.
RENO, NEVADA	13959.	17.0	2373.	570.	601.	5045.
RICHMOND, VIRGINIA	61277.	13.6	8350.	2004.	2018.	16864.
ROANOKE, VIRGINIA	20635.	14.1	2911.	699.	702.	7066.
ROCHESTER, MINN.	12309.	18.1	2228.	535.	616.	2340.
ROCHESTER, NEW YORK	115769.	10.9	12668.	3040.	2990.	20295.
ROCKFORD, ILLINOIS	37461.	13.7	5145.	1235.	1304.	8995.
SACRAMENTO, CALIFORNIA	93667.	11.3	10605.	2545.	2440.	18634.
SAGINAW, MICHIGAN	32349.	17.6	5687.	1365.	1563.	9828.
ST. JOSEPH, MO.	10035.	30.6	3071.	737.	901.	9720.
ST. LOUIS, MO.-ILL.	294679.	16.2	47841.	11482.	12269.	107314.
SALEM, OREGON	20684.	25.6	5295.	1271.	1468.	12754.
SALINAS-MONTEREY, CALIFORNIA	30012.	6.6	1981.	475.	402.	1439.
SALT LAKE CITY, UTAH	84722.	12.4	10486.	2517.	2666.	14162.
SAN ANGELO, TEXAS	8234.	22.8	1877.	451.	512.	5033.
SAN ANTONIO, TEXAS	117906.	21.2	24999.	6000.	7035.	41744.
SAN BERNARDINO-RIVERSIDE-ONTARIO, CALI	142206.	12.4	17591.	4222.	4214.	38232.
SAN DIEGO, CALIFORNIA	156409.	8.7	13546.	3251.	2903.	29397.
SAN FRANCISCO-OAKLAND, CALIF.	336769.	8.7	29216.	7012.	6151.	84879.
SAN JOSE, CALIFORNIA	143292.	7.9	11352.	2725.	2493.	15839.
SANTA BARBARA, CALIFORNIA	30458.	11.0	3350.	804.	762.	6302.
SANTA ROSA, CALIF.	23615.	14.5	3424.	822.	834.	1684.
SAVANNAH, GEORGIA	24035.	25.9	6232.	1496.	1809.	15382.
SCRANTON, PENNSYLVANIA	23596.	18.4	4332.	1040.	1075.	13717.
SEATTLE-EVERETT, WASH.	172841.	12.8	22114.	5307.	5305.	50237.

SMSA NAME	CHILDREN 6 AND UNDER	% UNSOUND HOUSING	CHILDREN AT RISK	MODEL 1 EBL	MODEL 1A EBL	HAZARDOUS HOUSING
SHREVEPORT, LA.	39209.	25.5	9985.	2397.	2919.	22799.
SIoux CITY, IOWA-NEB.	14103.	26.2	3698.	888.	1060.	9289.
SIoux FALLS, SOUTH DAKOTA	12029.	20.1	2418.	580.	656.	5245.
SOUTH BEND, INDIANA	33524.	12.4	4146.	995.	982.	9046.
SPOKANE, WASHINGTON	32863.	14.8	4878.	1171.	1192.	14465.
SPRINGFIELD, ILLINOIS	19371.	18.3	3555.	853.	929.	9177.
SPRINGFIELD, MO.	17261.	18.7	3232.	776.	834.	8251.
SPRINGFIELD, OHIO	20548.	18.3	3758.	902.	1007.	7480.
SPRINGFIELD-CHICOPEE-HOLYOKE, MASS.-CON	61955.	13.2	8153.	1957.	1947.	19954.
STAMFORD, CONNECTICUT	22249.	8.0	1775.	426.	366.	4395.
STEUBENVILLE-WEIRTON, OHIO-W.VA.	18826.	22.4	4222.	1013.	1141.	11354.
STOCKTON, CALIFORNIA	34507.	18.4	6363.	1527.	1661.	14881.
SYRACUSE, NEW YORK	83635.	16.7	13987.	3357.	3670.	29786.
TACOMA, WASHINGTON	48290.	14.9	7187.	1725.	1772.	15673.
TALLAHASSEE, FLORIDA	12210.	30.7	3748.	900.	1109.	6479.
TAMPA-ST. PETERSBURG, FLORIDA	99046.	12.9	12773.	3066.	2878.	38847.
TERRE HAUTE, INDIANA	18648.	26.1	4865.	1168.	1339.	9653.
TEXARKANA, TEX.-ARKANSAS	12577.	43.0	5408.	1298.	1764.	13850.
TOLEDO, OHIO-MICH.	88279.	13.1	11607.	2786.	2843.	19312.
TOPEKA, KANSAS	18978.	18.1	3426.	822.	897.	8307.
TRENTON, NEW JERSEY	34820.	10.9	3805.	913.	862.	8684.
TUCSON, ARIZONA	41612.	13.3	5554.	1333.	1336.	11373.
TULSA, OKLAHOMA	57932.	20.6	11924.	2862.	3218.	30023.
TUSCALOOSA, ALABAMA	12935.	33.2	4297.	1031.	1273.	9840.
TYLER, TEXAS	11939.	34.5	4119.	989.	1268.	9904.
UTICA-ROME, NEW YORK	42490.	20.9	8877.	2131.	2424.	22365.
VALLEJO-NAPA, CALIFORNIA	30425.	17.0	5172.	1241.	1333.	10722.
VINELAND-MILLVILLE-BRIDGETON, N.J.	16084.	21.2	3410.	818.	951.	2448.
WACO, TEXAS	15575.	23.5	3660.	878.	979.	11864.
WASHINGTON, D.C.-MD.-VA.	369959.	7.1	26322.	6317.	5561.	43996.
WATERBURY, CONNECTICUT	26226.	11.5	3008.	722.	709.	6562.
WATERLOO, IOWA	16948.	15.9	2700.	648.	694.	5950.
WEST PALM BEACH, FLORIDA	36870.	14.4	5295.	1271.	1254.	12839.
WHEELING, W. V.-OHIO	19536.	24.8	4841.	1162.	1317.	15556.
WICHITA, KANSAS	48751.	14.9	7272.	1745.	1828.	17010.
WICHITA FALLS, TEXAS	14195.	21.9	3109.	746.	830.	8967.
WILKES-BARRE-HAZLETON, PA.	34221.	15.0	5141.	1234.	1211.	17051.
WILMINGTON, DEL.-N.J.-MD.	64676.	13.0	8408.	2018.	2064.	14807.
WILMINGTON, NORTH CAROLINA	13820.	33.4	4616.	1108.	1430.	10419.
WORCESTER, MASSACHUSETTS	39622.	13.4	5295.	1271.	1263.	13336.
YORK, PENNSYLVANIA	40118.	12.4	4966.	1192.	1182.	9611.
YOUNGSTOWN-WARREN, OHIO	63191.	15.5	9818.	2356.	2449.	23776.
TOTAL FOR ALL SMSA S	17112858.	14.1	2458171.	589961.	424190.	5267587.

of the total population and 68.6% of the children 6 years old and under, acquired recently from Census, are considerably lower than the upward of 80% of total population said to be living in SMSA's according to Census press releases, (or at least the interpretation of newspaper writers), early in 1971.

Proper estimates of EBL incidence must take into account the population outside the SMSA's, and at the very least, further probing into Census data is required. Even for an off-the-cuff revision of the national totals, the rural fraction of this residual child population can hardly be assigned an incidence rate by any process more scientific than divination, from available data, since there are no incidence data available from rural areas. However, survey data available from "small cities" (see Table 4) suggest that incidence rates in such places are probably comparable to rates in metropolitan areas.

The precision of the estimated numbers of children with Elevated Blood Leads (EBL) (as well as the fractions of unsound housing, which are also estimates) should not in any case be construed as being meaningful. The values appear in the "form in which they come out of the computer" and we have not bothered to round them for cosmetic purposes.

Table 2 lists the symbols used in these models.

A brief description of the models used for the estimate in Table 1 is as follows:

Model 1

$$E = K_6 \left(\frac{D}{H} \right) I_0$$

where $I_0 = .24$.

Table 2: SYMBOLS USED IN MODELS 1 AND 2.9

$a_0, a_1, \dots$	parameters estimated by the curve fitting process
D	dilapidated or deteriorating housing units
E	number of children with elevated blood lead levels
H	number of housing units
I	fraction of children with elevated blood lead levels
K_6	children 6 years and under
P	total population

In this model I_0 was estimated by averaging tabulated incidence rates from preliminary data from 20 existing screening programs. These programs have for the most part screened children living in neighborhoods with poor housing. If one makes the assumption that the number of children per dwelling unit is the same for poor housing as for all housing, then $K_6 \left(\frac{D}{H} \right)$ is the number of children 6 years old or less who live in poor housing.

Model 2.9

$$I = a_0 \left(\frac{K_6}{P} \right)^{a_1} \left(\frac{D}{H} \right)^{a_2}$$

where $a_0 = e^{-.2914}$

$$a_1 = .2967$$

$$a_2 = .2484$$

Model 1A

The rate, I , predicted by Model 2.9 is applied to the estimate of children living in poor housing, in a manner similar to Model 1, that is, the number E , of children with elevated blood lead levels (40 μg /100 ml or more) is calculated as:

$$E = K_6 \left(\frac{D}{H} \right) I.$$

In other words the two models differ in that the factor I , the "incidence rate for high risk children" is constant for all SMSA's in Model 1 and calculated separately for each SMSA in Model 1A.

NOTES ON THE HEADINGS IN TABLE 1

(1) Children 6 and under

Children less than 7 years of age in each SMSA.

(2) % Unsound Housing

Fraction ($\times 100$) of total dwelling units in each SMSA estimated to be unsound.

(3) Children at Risk

The product of col. 1 and col. 2/100, thus an estimate of the number of children (6 and under) housed in unsound dwelling units in each SMSA, under the assumption that the children are distributed uniformly among the "quality of housing" categories.

(4) Model 1 EBL

An estimate of the children in each SMSA with elevated blood lead levels (greater than ".39 micrograms/100 ml whole blood"):

Column 3 multiplied by the constant rate .24

(5) Model 1A EBL

Estimate as in col 4 but with a rate for each SMSA determined by Model 2.9 replacing the constant .24.

(6) Hazardous Housing

Estimate of the number of dwelling units offering immediate danger, calculated as the fraction of unsound housing times the total housing.

The association of children at risk (by our definition), with children in unsound* housing is made, because several screening programs have used this criterion for choosing which children to test. In the Congressional Record of October 18, 1971, Congressman Ryan included a paper by Vincent F. Guinee which states that "in 1970 (children) were tested if they lived in an environment that made lead poisoning possible."

Table 3 contains a Model 1 estimate of the number of children with blood lead levels of 40 or more $\mu\text{g} / 100 \text{ ml}$, 50 or more, 60 or more, and 70 or more. These are determined by using as values for I_0 in Model 1 the 1970 rates for New York City which are included as column 2 of Table 4.

The report contains, in addition to outputs from the experimental models, a compilation in Table 4 of survey results from 26 cities identifying the data source for each city and tabulating the number of children screened and percent distributions of children screened for blood lead levels stratified by 10 microgram intervals (i.e., $< 10 \mu\text{g} / 100 \text{ ml}$, 10-19 $\mu\text{g} / 100 \text{ ml}$, etc.).

*The Census of Housing up till 1960 divided housing into three classes: sound, deteriorating, and dilapidated. Unsound is thus either deteriorating or dilapidated. Census also uses the term "substandard": unsound or missing any plumbing facility.

TABLE 3

SMSA NAME	CHILDREN 6 AND UNDER	CHILDREN AT RISK	ABOVE 40	ABOVE 50	ABOVE 60	ABOVE 70
ABILENE, TEXAS	13170.	2782.	801.	353.	167.	75.
AKRON, OHIO	83722.	11548.	3326.	1467.	693.	312.
ALBANY, GEORGIA	13512.	4391.	1265.	558.	263.	119.
ALBANY-SCHENECTADY-TROY, NEW YORK	86446.	14057.	4048.	1785.	843.	380.
ALBUQUERQUE, N. MEXICO	42271.	5221.	1504.	663.	313.	141.
ALLENTOWN-BETHLEHEM-EASTON, PA.-N.J.	59922.	7243.	2086.	920.	435.	196.
ALTOONA, PENNSYLVANIA	15446.	4231.	1218.	537.	254.	114.
AMARILLO, TEXAS	17758.	2761.	795.	351.	166.	75.
ANAHEIM-SANTA ANA-GARDEN GROVE, CALIF.	184609.	12553.	3615.	1594.	753.	339.
ANDERSON, INDIANA	18112.	4166.	1200.	529.	250.	112.
ANN ARBOR, MICHIGAN	27735.	3615.	1041.	459.	217.	98.
APPLETON-OSHKOSH, WISC.	37201.	5803.	1671.	737.	348.	157.
ASHEVILLE, NORTH CAROLINA	16766.	4557.	1312.	579.	273.	123.
ATLANTA, GEORGIA	185298.	33718.	9711.	4282.	2023.	910.
ATLANTIC CITY, NEW JERSEY	19462.	2516.	725.	320.	151.	68.
AUGUSTA, GEORGIA	31834.	8568.	2468.	1088.	514.	231.
AUSTIN, TEXAS	35431.	6742.	1942.	856.	405.	182.
BAKERSFIELD, CALIFORNIA	42337.	9065.	2611.	1151.	544.	245.
BALTIMORE, MARYLAND	255628.	32562.	9378.	4135.	1954.	879.
BATON ROUGE, LA.	38400.	7771.	2238.	987.	466.	210.
BAY CITY, MICHIGAN	16338.	3041.	876.	386.	182.	82.
BEAUMONT-PORT ARTHUR-ORANGE, TEXAS	38323.	8506.	2450.	1080.	510.	230.
BILLINGS, MONTANA	10386.	2493.	718.	317.	150.	67.
BILOXI-GULFPORT, MISSISSIPPI	17616.	5637.	1623.	716.	338.	152.
BINGHAMPTON, NEW YORK	38473.	5600.	1613.	711.	336.	151.
BIRMINGHAM, ALABAMA	86353.	22720.	6543.	2886.	1363.	613.
BLOOMINGTON-NORMAL, ILLINOIS	11489.	2872.	827.	365.	172.	78.
BOISE CITY, IDAHO	13834.	2642.	761.	336.	159.	71.
BOSTON, MASSACHUSETTS	316924.	39098.	11260.	4965.	2346.	1056.
BRIDGEPORT, CONN.	46076.	4784.	1378.	608.	287.	129.
BRISTOL, CONN.	8651.	1064.	306.	135.	64.	29.
BROCKTON, MASSACHUSETTS	27501.	3274.	943.	416.	196.	88.
BROWNSVILLE-HARLINGEN-SAN BENITO, TEXAS	21807.	7685.	2213.	976.	461.	208.
BRYAN-COLLEGE STATION, TEXAS	7604.	2441.	703.	310.	146.	66.
BUFFALO, NEW YORK	163029.	21859.	6295.	2776.	1312.	590.
CANTON, OHIO	45669.	7980.	2298.	1013.	479.	215.
CEDAR RAPIDS, IOWA	22808.	3587.	1033.	456.	215.	97.
CHAMPAIGN-URBANA, ILLINOIS	18384.	2574.	741.	327.	154.	70.
CHARLESTON, SOUTH CAROLINA	43077.	11979.	3450.	1521.	719.	323.
CHARLESTON, WEST VIRGINIA	25044.	6153.	1772.	781.	369.	166.
CHARLOTTE, NORTH CAROLINA	53899.	10456.	3011.	1328.	627.	282.
CHATTANOOGA, TENN.	36526.	9312.	2682.	1183.	559.	251.
CHICAGO, ILLINOIS	872488.	100310.	28889.	12739.	6019.	2708.
CINCINNATI, OHIO-KY.-IND.	179656.	26732.	7699.	3395.	1604.	722.
CLEVELAND, OHIO	250654.	26540.	7643.	3371.	1592.	717.
COLORADO SPRINGS, COLORADO	30281.	3951.	1138.	502.	237.	107.
COLUMBIA, MISSOURI	9096.	2110.	608.	268.	127.	57.
COLUMBIA, SOUTH CAROLINA	38743.	8799.	2534.	1118.	528.	238.
COLUMBUS, GEORGIA	31301.	8377.	2413.	1064.	503.	226.
COLUMBUS, OHIO	116049.	19633.	5654.	2493.	1178.	530.

SPSA NAME	CHILDREN 6 AND UNDER	CHILDREN AT RISK	ABOVE 40	ABOVE 50	ABOVE 60	ABOVE 70
CORPUS CHRISTI, TEXAS	40368.	9309.	2691.	1192.	559.	251.
DALLAS, TEXAS	211789.	35624.	10260.	4524.	2137.	962.
DAVENPORT-ROCK ISLAND-MOLINE, IOWA	47629.	7883.	2270.	1001.	473.	213.
DAYTON, OHIO	108074.	13327.	3838.	1692.	800.	360.
DECATUR, ILLINOIS	15689.	2609.	752.	331.	157.	70.
DENVER, COLORADO	154700.	16927.	4875.	2150.	1016.	457.
DES MOINES, IOWA	35607.	6913.	1991.	878.	415.	187.
DETROIT, MICHIGAN	546190.	59147.	17034.	7512.	3549.	1597.
DUBUQUE, IOWA	13559.	3336.	961.	424.	200.	90.
DULUTH-SUPERIOR, MINN.-WIS.	29551.	5656.	1629.	718.	339.	153.
DURHAM- NORTH CAROLINA	21903.	4797.	1382.	609.	268.	130.
EL PASO, TEXAS	52765.	10145.	2922.	1288.	609.	274.
ERIE, PENNSYLVANIA	33774.	5189.	1495.	659.	311.	140.
EUGENE, OREGON	24747.	4340.	1250.	551.	260.	117.
EVANSVILLE, IND.-KY.	26835.	5217.	1503.	663.	313.	141.
FALL RIVER, MASS.-R.I.	17996.	2513.	724.	319.	151.	68.
FARGO-MOREHEAD, N. DAK.-MINN.	13984.	2274.	655.	289.	136.	61.
FAYETTEVILLE, NORTH CAROLINA	29292.	9784.	2818.	1243.	587.	264.
FITCHBURG-LEOMINSTER, MASS.	12007.	3038.	875.	386.	182.	82.
FLINT, MICHIGAN	73001.	10855.	3126.	1379.	651.	293.
FORT LAUDERDALE-HOLLYWOOD, FLORIDA	60748.	4546.	1309.	577.	273.	123.
FORT SMITH, ARK.-CKLA.	19765.	8064.	2322.	1024.	484.	218.
FORT WAYNE, INDIANA	37993.	5470.	1576.	695.	328.	148.
FORT WORTH, TEXAS	99588.	16732.	4819.	2125.	1004.	452.
FRESNO, CALIFORNIA	51778.	11272.	3246.	1432.	676.	304.
GADSDEN, ALABAMA	11203.	4291.	1236.	545.	257.	116.
GAINESVILLE, FLORIDA	12416.	3837.	1105.	487.	230.	104.
GALVESTON-TEXAS CITY, TEXAS	21319.	4898.	1411.	622.	294.	132.
GARY-HAMMOND-EAST CHICAGO, INDIANA	84681.	13042.	3756.	1656.	783.	352.
GRAND RAPIDS, MICHIGAN	72650.	9822.	2829.	1247.	589.	265.
GREAT FALLS, MONTANA	10722.	3088.	889.	392.	185.	83.
GREEN BAY, WISCONSIN	23340.	3143.	905.	399.	189.	85.
GREENSBORO-WINSTON-SALEM-HIGH POINT, N.C.	73497.	14531.	4185.	1845.	872.	392.
GREENVILLE, SOUTH CAROLINA	37021.	9236.	2660.	1173.	554.	249.
HAMILTON-MIDDLETOWN, OHIO	28127.	3969.	1143.	504.	238.	107.
HARRISBURG, PENNSYLVANIA	46094.	5700.	1641.	724.	342.	154.
HARTFORD, CONNECTICUT	61943.	7196.	2073.	914.	432.	194.
HONOLULU, HAWAII	84918.	18081.	5207.	2296.	1085.	488.
HOUSTON, TEXAS	273286.	40299.	11606.	5118.	2418.	1088.
HUNTINGTON-ASHLAND, W. VA.-KY.-OHIO	29205.	7740.	2229.	983.	464.	209.
HUNTSVILLE, ALABAMA	32785.	7247.	2087.	920.	435.	196.
INDIANAPOLIS, INDIANA	145885.	21943.	6320.	2787.	1317.	592.
JACKSON, MICHIGAN	18320.	3184.	917.	404.	191.	86.
JACKSON, MISSISSIPPI	34632.	7987.	2300.	1014.	479.	216.
JACKSONVILLE, FLORIDA	66225.	13701.	3946.	1740.	822.	370.
JERSEY CITY, NEW JERSEY	66577.	10348.	2980.	1314.	621.	279.
JOHNSTOWN, PENNSYLVANIA	28976.	7284.	2098.	925.	437.	197.
KALAMAZOO, MICHIGAN	24488.	3550.	1022.	451.	213.	96.
KANSAS CITY, MO.-KANSAS	155548.	24083.	6936.	3059.	1445.	650.

SMSA NAME	CHILDREN 6 AND UNDER	CHILDREN AT RISK	ABOVE 40	ABOVE 50	ABOVE 60	ABOVE 70
KENOSHA, WISCONSIN	15705.	2123.	611.	270.	127.	57.
KNOXVILLE, TENNESSEE	45155.	10776.	3104.	1369.	647.	291.
LA CROSSE, WISC.	9422.	2271.	654.	288.	136.	61.
LAFAYETTE, LA.	16090.	4811.	1386.	611.	289.	130.
LAFAYETTE-WEST LAFAYETTE, IND.	13086.	2997.	863.	381.	180.	81.
LAKE CHARLES, LA.	20132.	4127.	1188.	524.	248.	111.
LANCASTER, PENNSYLVANIA	39692.	4679.	1348.	594.	281.	126.
LANSING, MICHIGAN	50711.	7821.	2253.	993.	469.	211.
LAREDO, TEXAS	12018.	6778.	1952.	861.	407.	183.
LAS VEGAS, NEVADA	37812.	3143.	905.	399.	189.	85.
LAWRENCE-HAVERHILL, MASS.-N.H.	29275.	4958.	1428.	630.	298.	134.
LAWTON, OKLAHOMA	13585.	2948.	849.	374.	177.	80.
LEWISTON-AUBURN, MAINE	9143.	2286.	658.	290.	137.	62.
LEXINGTON, KENTUCKY	21648.	4249.	1224.	540.	255.	115.
LIMA, OHIO	22761.	4451.	1282.	565.	267.	120.
LINCOLN, NEBRASKA	18891.	3776.	1087.	480.	227.	102.
LITTLE ROCK-NORTH LITTLE ROCK, ARK.	40663.	8812.	2538.	1119.	529.	238.
LORAIN-ELYRIA, OHIO	36428.	4621.	1331.	587.	277.	125.
LOS ANGELES-LONG BEACH, CALIF.	839060.	60901.	17540.	7734.	3654.	1644.
LOUISVILLE, KY.-IND.	103292.	16890.	4864.	2145.	1013.	456.
LOWELL, MASS.	31615.	4550.	1310.	578.	273.	123.
LUBBOCK, TEXAS	23977.	4512.	1300.	573.	271.	122.
LYNCHBURG, VIRGINIA	14457.	3737.	1076.	475.	224.	101.
MACON, GEORGIA	27130.	8047.	2317.	1022.	483.	217.
MADISON, WISCONSIN	36274.	3807.	1097.	484.	228.	103.
MANCHESTER, NEW HAMPSHIRE	13085.	2604.	750.	331.	156.	70.
MANSFIELD, OHIO	16624.	3840.	1106.	488.	230.	104.
MCALLEN-PHARR-EDENBURG, TEXAS	28918.	9919.	2857.	1260.	595.	268.
MEMPHIS, TENN.-ARK.	101031.	18834.	5424.	2392.	1130.	509.
MERIDEN, CONNECTICUT	6868.	1023.	295.	130.	61.	28.
MIAMI, FLORIDA	127325.	10705.	3083.	1360.	642.	289.
MIDLAND, TEXAS	8141.	1506.	434.	191.	90.	41.
MILWAUKEE, WISCONSIN	177587.	17599.	5069.	2235.	1056.	475.
MINNEAPOLIS-ST. PAUL, MINN.	244356.	27886.	8031.	3542.	1673.	753.
MOBILE, ALABAMA	50299.	13962.	4021.	1773.	838.	377.
MODESTO, CALIF.	24199.	3097.	892.	393.	186.	84.
MONROE, LA.	15924.	5067.	1459.	643.	304.	137.
MONTGOMERY, ALABAMA	26002.	7248.	2087.	920.	435.	196.
MUNCIE, INDIANA	16395.	2850.	821.	362.	171.	77.
MUSKEGON-MUSKEGON HEIGHTS, MICH.	20879.	3500.	1008.	444.	210.	94.
NASHUA, N.H.	10211.	1828.	526.	232.	110.	49.
NASHVILLE, TENNESSEE	63669.	12964.	3734.	1646.	778.	350.
NEW BEDFORD, MASS.	16794.	2018.	581.	256.	121.	54.
NEW BRITAIN, CONNECTICUT	16896.	1689.	486.	215.	101.	46.
NEW HAVEN, CONNECTICUT	40814.	5387.	1552.	684.	323.	145.
NEW LONDON-GROTON-NORWICH, CONN.	27844.	4500.	1296.	572.	270.	122.
NEW ORLEANS, LA.	140338.	30149.	8683.	3829.	1809.	814.
NEW YORK, NEW YORK	1316742.	169107.	48703.	21477.	10146.	4566.
NEWARK, NEW JERSEY	221966.	28511.	8211.	3621.	1711.	770.
NEWPORT NEWS-HAMPTON, VA.	38746.	6901.	1987.	876.	414.	186.

SMSA NAME	CHILDREN 6 AND UNDER	CHILDREN AT RISK	ABOVE 40	ABOVE 50	ABOVE 60	ABOVE 70
NORFOLK-PORTSMOUTH, VA.	86336.	15190.	4375.	1929.	911.	410.
NORWALK, CONNECTICUT	14300.	1544.	445.	196.	93.	42.
ODESSA, TEXAS	12194.	2573.	741.	327.	154.	69.
OGDEN, UTAH	17608.	2522.	726.	320.	151.	68.
OKLAHOMA CITY, OKLAHOMA	78298.	13851.	3989.	1759.	831.	374.
OMAHA, NEBR.-IOWA	73418.	11420.	3289.	1450.	685.	308.
ORLANDO, FLORIDA	51620.	8042.	2316.	1021.	483.	217.
OWENSBORO, KENTUCKY	10626.	2274.	655.	289.	136.	61.
OXNARD-VENTURA, CALIFORNIA	53501.	8346.	2404.	1060.	501.	225.
PATERSON-CLIFTON-PASSAIC, N.J.	150497.	11350.	3269.	1441.	306.	306.
PENSACOLA, FLORIDA	31305.	7501.	2160.	953.	450.	203.
PEORIA, ILLINOIS	42686.	6762.	1947.	859.	406.	183.
PETERSBURG-COLONIAL HEIGHTS, VA.	15944.	6489.	1869.	824.	389.	175.
PHILADELPHIA, PA.-N.J.	578867.	60106.	17311.	7633.	3606.	1623.
PHOENIX, ARIZONA	122301.	18523.	5334.	2352.	1111.	500.
PINE BLUFF, ARKANSAS	11669.	6010.	1731.	763.	361.	162.
PITTSBURGH, PENNSYLVANIA	259899.	43920.	12649.	5578.	2635.	1186.
PITTSFIELD, MASSACHUSETTS	9703.	1669.	481.	212.	100.	45.
PORTLAND, MAINE	16732.	2143.	617.	272.	129.	58.
PORTLAND, ORE.-WASH.	116027.	17266.	4973.	2193.	1036.	466.
PROVIDENCE-PAWTUCKET-WARWICK- R.I.-MAS	108421.	13360.	3848.	1697.	802.	361.
PROVO-OREM, UTAH	20171.	2640.	760.	335.	158.	71.
PUEBLO, COLORADO	14206.	3537.	1019.	449.	212.	95.
RACINE, WISCONSIN	23489.	2924.	842.	371.	175.	79.
RALEIGH, N.C.	27887.	6641.	1912.	843.	398.	179.
READING, PENNSYLVANIA	31977.	4091.	1178.	520.	245.	110.
RENO, NEVADA	13959.	2373.	683.	301.	142.	64.
RICHMOND, VIRGINIA	61277.	8350.	2405.	1060.	501.	225.
ROANOKE, VIRGINIA	20635.	2911.	839.	370.	175.	79.
ROCHESTER, MINN.	12309.	2228.	642.	283.	134.	60.
ROCHESTER, NEW YORK	115769.	12668.	3648.	1609.	760.	342.
ROCKFORD, ILLINOIS	37461.	5145.	1482.	653.	309.	139.
SACRAMENTO, CALIFORNIA	93667.	10605.	3054.	1347.	636.	286.
SAGINAW, MICHIGAN	32349.	5687.	1638.	722.	341.	154.
ST. JOSEPH, MO.	10035.	3071.	884.	390.	184.	83.
ST. LOUIS, MO.-ILL.	294679.	47841.	13778.	6076.	2870.	1292.
SALEM, OREGON	20684.	5295.	1525.	672.	318.	143.
SALINAS-MONTEREY, CALIFORNIA	30012.	1981.	570.	252.	119.	53.
SALT LAKE CITY, UTAH	84722.	10486.	3020.	1332.	629.	283.
SAN ANGELO, TEXAS	8234.	1877.	541.	238.	113.	51.
SAN ANTONIO, TEXAS	117906.	24999.	7200.	3175.	1500.	675.
SAN BERNARDINO-RIVERSIDE-ONTARIO, CALI	142206.	17591.	5066.	2234.	1055.	475.
SAN DIEGO, CALIFORNIA	156409.	13546.	3901.	1720.	813.	366.
SAN FRANCISCO-OAKLAND, CALIF.	336769.	29216.	8414.	3710.	1753.	789.
SAN JOSE, CALIFORNIA	143292.	11352.	3270.	1442.	681.	307.
SANTA BARBARA, CALIFORNIA	30458.	3350.	965.	426.	201.	90.
SANTA ROSA, CALIF.	23615.	3424.	986.	435.	205.	92.
SAVANNAH, GEORGIA	24035.	6232.	1795.	791.	374.	168.
SCRANTON, PENNSYLVANIA	23596.	4332.	1248.	550.	260.	117.
SEATTLE-EVEPETT, WASH.	172841.	22114.	6369.	2808.	1327.	597.

SMSA NAME	CHILDREN 6 AND UNDER	CHILDREN AT RISK	ABOVE 40	ABOVE 50	ABOVE 60	ABOVE 70
SHREVEPORT, LA.	39209.	9985.	2876.	1268.	599.	270.
SIoux CITY, IOWA-NEB.	14103.	3698.	1065.	470.	222.	100.
SIoux FALLS, SOUTH DAKOTA	12029.	2418.	696.	307.	145.	65.
SOUTH BEND, INDIANA	33524.	4146.	1194.	527.	249.	112.
SPOKANE, WASHINGTON	32863.	4878.	1405.	619.	293.	132.
SPRINGFIELD, ILLINOIS	19371.	3555.	1024.	451.	213.	96.
SPRINGFIELD, MO.	17261.	3232.	931.	410.	194.	87.
SPRINGFIELD, OHIO	20548.	3758.	1082.	477.	225.	101.
SPRINGFIELD-CHICOPEE-HOLYOKE, MASS.-CON	61955.	8153.	2348.	1035.	489.	220.
STAMFORD, CONNECTICUT	22249.	1775.	511.	225.	107.	48.
STEUBENVILLE-WEIRTON, OHIO-W.VA.	18826.	4222.	1216.	536.	253.	114.
STOCKTON, CALIFORNIA	34507.	6363.	1833.	808.	382.	172.
SYRACUSE, NEW YORK	83635.	13987.	4028.	1776.	839.	378.
TACOMA, WASHINGTON	48290.	7187.	2070.	913.	431.	194.
TALLAHASSEE, FLORIDA	12210.	3748.	1080.	476.	225.	101.
TAMPA-ST. PETERSBURG, FLORIDA	99046.	12773.	3679.	1622.	766.	345.
TERRE HAUTE, INDIANA	18648.	4865.	1401.	618.	292.	131.
TEXARKANA, TEX.-ARKANSAS	12577.	5408.	1558.	687.	324.	146.
TOLEDO, OHIO-MICH.	88279.	11607.	3343.	1474.	696.	313.
TOPEKA, KANSAS	18978.	3426.	987.	435.	206.	93.
TRENTON, NEW JERSEY	34820.	3805.	1096.	483.	228.	103.
TUCSON, ARIZONA	41612.	5554.	1599.	705.	333.	150.
TULSA, OKLAHOMA	57932.	11924.	3434.	1514.	715.	322.
TUSCALOOSA, ALABAMA	12935.	4297.	1237.	546.	258.	116.
TYLER, TEXAS	11939.	4119.	1186.	523.	247.	111.
UTICA-ROME, NEW YORK	42490.	8877.	2557.	1127.	533.	240.
VALLEJO-NAPA, CALIFORNIA	30425.	5172.	1490.	657.	310.	140.
VINELAND-MILLVILLE-BRIDGETON, N.J.	16084.	3410.	982.	433.	205.	92.
WACO, TEXAS	15575.	3660.	1054.	465.	220.	99.
WASHINGTON, D.C.-MD.-VA.	369959.	26322.	7581.	3343.	1579.	711.
WATERBURY, CONNECTICUT	26226.	3008.	866.	382.	181.	81.
WATERLOO, IOWA	16948.	2700.	778.	343.	162.	73.
WEST PALM BEACH, FLORIDA	36870.	5295.	1525.	672.	318.	143.
WHEELING, W. V.-OHIO	19536.	4841.	1394.	615.	290.	131.
WICHITA, KANSAS	48751.	7272.	2094.	924.	436.	196.
WICHITA FALLS, TEXAS	14195.	3109.	895.	395.	187.	84.
WILKES-BARRE-HAZLETON, PA.	34221.	5141.	1481.	653.	308.	139.
WILMINGTON, DEL.-N.J.-MD.	64676.	8408.	2422.	1068.	504.	227.
WILMINGTON, NORTH CAROLINA	13820.	4616.	1329.	586.	277.	125.
WORCESTER, MASSACHUSETTS	39622.	5295.	1525.	672.	318.	143.
YORK, PENNSYLVANIA	40118.	4966.	1430.	631.	298.	134.
YOUNGSTOWN-WARREN, OHIO	63191.	9818.	2828.	1247.	589.	265.
TOTAL FOR ALL SMSA S	17112858.	2458171.	707953.	312188.	147490.	66371.

TABLE 4: BLOOD LEAD LEVEL DISTRIBUTIONS

	New York 1969	New York 1970	Aurora, Ill.	Aurora, Ill.	Springfield, Ill.	Peoria, Ill.	E. St. Louis, Ill.	Decatur, Ill.	Joliet, Ill.	Rock Island, Ill.	E. Moline, Ill.	Robbins, Ill.	Harvey, Ill.	Carbondale, Ill.
Under 10	0.0	.1	17.7	75.7	69.9	68.7	75.3	87.8	75.7	78.9	88.6	87.4	83.6	83.0
10-19	5.9	6.0	23.0	23.0	23.3	15.2	11.0	13.4	14.1	13.5	12.7	6.7	13.3	8.1
20-29	20.8	31.5	23.3	15.2	11.0	13.4	14.1	13.5	12.7	6.7	2.7	2.7	6.2	3.8
30-39	27.8	33.6	15.2	11.0	13.4	14.1	13.5	12.7	6.7	2.7	2.0	2.0	1.3	.4
40-49	21.0	16.1	11.0	13.4	14.1	13.5	12.7	6.7	13.3	8.1	6.7	9.7	7.1	11.7
50-59	12.0	6.7	4.5	3.6	8.9	8.8	7.2	2.7	7.9	6.3	2.7	2.9	6.2	3.8
60-69	5.9	3.3	2.1	2.0	3.1	5.9	2.9	1.9	2.1	2.1	2.0	0.0	1.3	.4
70-79	6.6	2.7	1.1	1.7	3.0	1.5	1.4	.1	.2	3.5	0.0	0.0	.9	.7
80-89			.7	1.6	.3	1.3	.2	.5	0.0	1.1	0.0	0.0	.5	.4
90-99			.6	.8	.4	0.0	.3	.3	.3	0.0	0.0	0.0	.4	0.0
100 & Over			.7	1.2	.3	.3	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Number Screened	2,648	84,493	1445	449	670	387	376	793	383	285	298	103	226	264
	Congressional Record 10/18/71, Article by Guinee Submitted by Cong. Ryan	Lead Poisoning Con- trol Bureau, City of N.Y.	Communication from Gtollaksen, Kane, Co Council for Economic Opportunity(11/12/71)			"Pediatric Lead Poisoning in Illinois"			Philip R. Fine and Richard H. Suhs					

